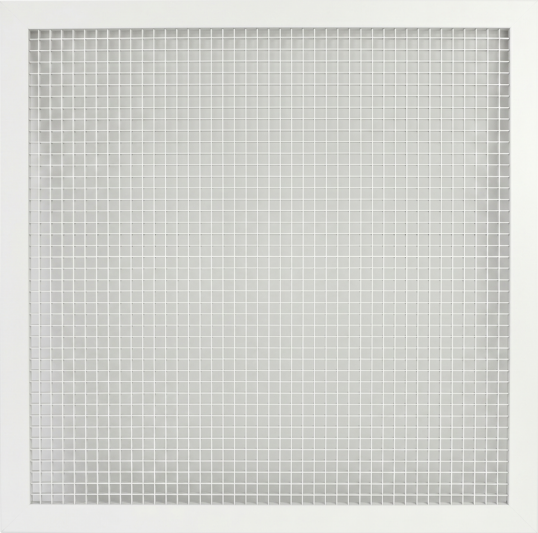
Egg Crate Grilles with OBD

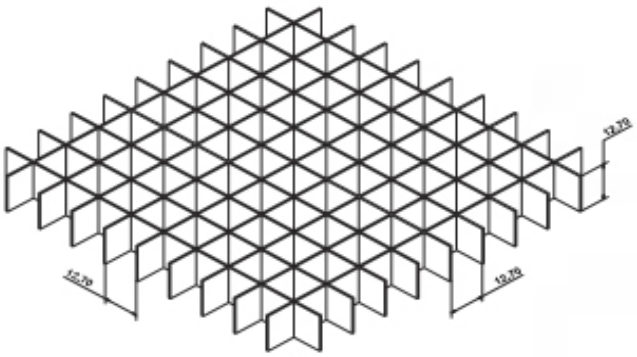
Polyaire Model EC Eggcrate Grilles are normally used in ceiling return air and exhaust applications

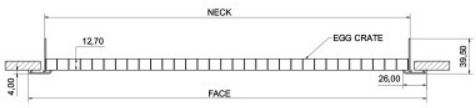
Construction: The frame is made from an aluminium extrusion, which supports and retains the aluminium square pattern lattice core.
The standard frame flange for the 595x595mm is 26mm.
The standard frame flange for all other sizes is 19mm.
Standard finish is powder coat white (RAL9010 & RAL9016) while other finishes are available to suit the interior and architectural design requirements.
The model EC-FC are available in stock sizes per below but can also be manufactured to order in a wide range of sizes required.



MODEL EC-FC-OBD - Stock Sizes Available			
Item #	**Size mm (W x H)**	**Neck Size (mm)**	**Face Size (mm)**
248592/1E	100 × 100	94 × 94	132 × 132
248593/6	150 × 150	145 × 145	181 × 181
248595/6E	200 × 200	195 × 195	232 × 232
248595A/7	225 × 225	220 × 220	270 × 270
248596/7E	250 × 250	244 × 244	280 × 280
248597/8	300 × 300	294 × 294	333 × 333
248598/9E	350 × 350	345 × 345	382 × 382
248603/10E	400 × 400	393 × 393	432 × 432
248604/10	450 × 450	445 × 445	482 × 482
248605/11E	500 × 500	495 × 495	533 × 533
248610/12E	550 × 550	542 × 542	595 × 595
248619 F/C + OBD	1150 × 550	1145 × 545	1195 × 595

Notes:
- Standard frame flange for 595x595mm size = 26mm; all other sizes = 19mm
- Standard finish: powder coat white (RAL9010 & RAL9016); other finishes available
- Ceiling opening = 100 x 100 ; Neck = 94 x 94 (248592)





MODEL EC-FC



MODEL EC-C

PERFORMANCE DATA

Item #	Neck Size (mm)	Free Area (m^2)	Metric	Velocity (m/s)						
			Vel m/s	1.5	2	2.5	3	3.5	4	5
			Pa	4	6	9	13	18	23	34
248592	100x100	0.009	m^3/s	0.014	0	0.023	0.027	0.032	0.036	0.045
			NR	-	-	-	-	22	25	31
248593	150x150	0.019	m^3/s	0.029	0	0.048	0.057	0.067	0.076	0.095
			NR	-	-	-	-	22	25	31
248595	200x200	0.034	m^3/s	0.051	0	0.085	0.102	0.119	0.136	0.17
			NR	-	-	-	18	25	28	35
248596	250x250	0.054	m^3/s	0.081	0	0.135	0.162	0.189	0.216	0.27
			NR	-	-	-	19	26	28	37
248597	300x300	0.078	m^3/s	0.117	0	0.195	0.234	0.273	0.312	0.39
			NR	-	-	16	20	28	32	40
248598	350x350	0.106	m^3/s	0.159	0	0.265	0.318	0.371	0.424	0.53
			NR	-	-	17	23	30	32	42
248603	400x400	0.144	m^3/s	0.216	0	0.36	0.432	0.504	0.576	0.72
			NR	-	-	19	24	29	33	43
248604	450x450	0.182	m^3/s	0.273	0	0.455	0.546	0.637	0.728	0.91
			NR	-	-	20	25	33	35	45
248605	500x500	0.231	m^3/s	0.347	0	0.578	0.693	0.809	0.924	1.155
			NR	-	-	21	26	33	36	46
248610	550x550	0.299	m^3/s	0.449	1	0.748	0.897	1.047	1.196	1.495
			NR	-	-	22	28	34	38	50

* The free area of the grille is >90% of the nominal area, providing maximum air flow and very low noise levels.

Please contact our Sales Office for selection guidance:

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